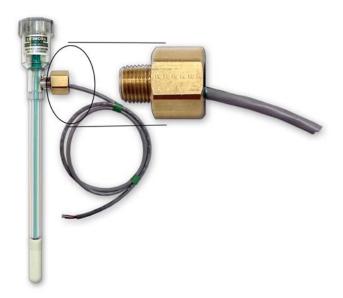
#### **INSTALLATION AND OPERATING INSTRUCTIONS**



# **RSU-V – Remote Sensing Tensiometer**



The IRROMETER RSU-V incorporates a pressure transducer in a potted waterproof housing. The RSU-V can be installed in the gauge port of any IRROMETER, thus converting the reading to a voltage signal. Excitation voltage required is 5 VDC.

Note 1: Consult the factory if modifying an existing MLT.

**Note 2:** Three wire insulated cable (suitable for direct burial) should be used to connect RSU-V to Electronic Reading Device – #18 AWG size (standard preferred).

### **Calibration Information**

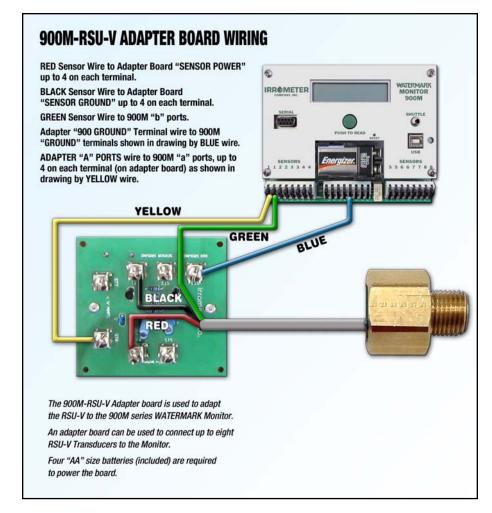
INPUT: 5 Volts

VOLTAGE RANGE: 0.5 - 4.5 Volts SPAN: 4 Volt Span TENSION RANGE: 0 - 94 kPa CALIBRATION: .0426 V/cb

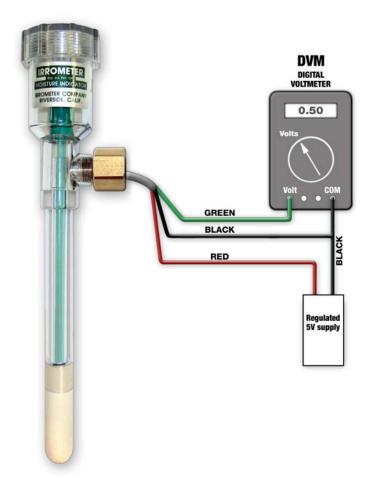
#### — WARNING —

Do Not use water containing chlorine or sulfur (distilled preferred) or cleaners containing chlorine or sulfur with the RSU-V.

When de-airing the transducer equipped IRROMETER (Model RSU-V) care must be taken to release the vacuum slowly. A sudden release of the vacuum could cause damage to the pressure transducer, rendering the instrument inoperable. Transducers damaged by sudden release of the vacuum are unrepairable and would require complete replacement of the entire transducer assembly.



## **Reading the RSU-V with a Digital Meter**



VACUUM	RSU-V (Standard Instruments)
<b>0</b> kPa	The DVM shows <b>0.5 V</b>
<b>50</b> kPa	The DVM shows <b>2.63 V</b>
<b>94</b> kPa	The DVM shows <b>4.5 V</b>



### Remote Sensing Units - RSU-V

Multi-conductor wire can be used and twisted pairs are recommended. All splices should be made with direct burial type waterproof splices, Spears DBY® or similar. The following table presents recommended maximum limits for cable extensions to RSU-V transducers. Following these guidelines should ensure that the voltage loss created by the wire length will not exceed 1 Centibar (kPa) of the calibrated value.

DISTANCE	WIRE SIZE
Up to 200 ft. (61 m)	. AWG UF 18 (1.02 mm, 0.82 sq mm)
Up to 300 ft. (91 m)	. AWG UF 16 (1.29 mm, 1.31 sq mm)
Up to 400 ft. (121 m)	. AWG UF 14 (1.63 mm, 2.08 sq mm)

**WARRANTY:** The IRROMETER COMPANY warrants its products against defective workmanship or materials under normal use for one year from date of purchase. Defective parts will be replaced at no charge for either labor or parts if returned to the manufacturer during the warranty period. The seller's or manufacturer's only obligation shall be to replace the defective part and neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use of or inability to use the product. This warranty does not protect against abuse, shipping damage, neglect, tampering or vandalism, freezing or other damage whether intentionally or inadvertently caused by the user.

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